



Sequence Listing

<110> Krammer, Peter  
Muller-Schilling, Martina  
Oren, Moshe

<120> p53 Binding Areas

<130> 4121-122

<140> US 09/834,291

<141> 2001-04-12

<150> PCT/DE99/03343

<151> 1999-10-18

<150> DE 198 47 779.1

<151> 1998-10-16

<160> 32

<170> PatentIn Ver. 2.1

<210> 1

<211> 3212

<212> DNA

<213> Homo Sapiens

<400> 1

tgaggactct caggaatatg ctggtaaaat aaaaataacc tttagagatg cccaaactgt 60  
tttcccaga acaccagcat tcattaggtg ttcattcaat agattcttca aaggattcca 120  
aaggcaaaga agtttgggga acagtatata taattaccca accctttgac attagcatac 180  
taagggccct gagaagtttt ggattaagaa agttttcaaa ttaaagtaac ccagaatttt 240  
ctaagattat ttgaccatga aacatatgtc tccccacaaa gcacatatc ctatctcctt 300  
gaacttgagg ataattagac gtacgtgggt agagggtagg ggaagggggt atggcataga 360  
aagagcagga ccttgggagc aagaatatct aagtttaatt cctgactctg ctattttatta 420  
actaaccatc tttgccaatg ttgcttaagc ttttttggct acattttttt atttgtaaag 480  
taagtttaat aatcactcat ctactgggc tataatgata agtattaagt aaggaagatc 540  
cacatatgtg agttgctggc ttataattca cactcaagag atactgattt tgtcaattgt 600  
cctttccctt ttttttctct ctccctctct tccattctct cttcccttac ctctcctttc 660  
cttccctcac accccttttc ctctctctct tttacatttt tttatttttaa tgaacttttc 720  
attttggaat agtttttaga tttcaaaaaa ttgcagaga taatacagag aatgcccata 780  
taccatctct cttatcccac ttctttttgt gtctattaga tgctcagagt gtgtgcacaa 840  
ggctggcacg cccagggtct tcctcatggc actaacagtc tactgaaagg tggacacagag 900  
acaagcctat caacacctac aagactggtg gtaagtgcag tgacagatgc aaaacacagg 960  
gtgatggaaa gccctcagga gggtaacctt acctagattt gagggcccaa caggctccag 1020  
aagaaaatgt caactgagag gaagcctgaa ggatgaacag tgggctaagc aaagggttat 1080  
taatgtgtta ttaatgggtt gaatctaatt ggaaggggag agagggttgc agtgagggtg 1140  
cagagcttgg tggacgatgc caaaggaata ctgaaacctt tagtgtgtcc agtctggaac 1200  
tgcatccaaa ttcaggttca gtaatgatgt cattatccaa acataccttc tgtaaaattc 1260  
atgctaaact acctaaagac tatctaccgt tccaaagcaa tagtgacttt gaacagtgtt 1320  
caccagagca cgaaagaatt acaagatttt tttttaaaga aaattggcca ggaataatg 1380  
agtaacgaag gacaggaagt aattgtgaat gtttaataata gctggggcta tgcgatttgg 1440  
cttaagttgt tagctttgtt ttctcttga gaaataaaaa ctaagggggc ctcccttttc 1500  
agagccttat ggcgaacat ctgtactttt tcatatggtt aactgtccat tccagaaacg 1560  
tctgtgagcc tctcatgttg gcccacaac atggacagcc cagtcaaagt ccccgcaagt 1620  
ctttctctga gtgactccag caattagcca aggtctctgt acccaggcag gacctctgcg 1680

102140-1624360

ctctgagctc cattctcctt caagacctcc ccaacttccc aggttgaact acagcagaag 1740  
 ccttttagaaa gggcaggagg cggctctcg aggtctcac ctgaagttag catgccagcc 1800  
 actgcaggaa cgccccggga caggaatgcc catttgtgca acgaacctg actccttctt 1860  
 cacctgact tctccccctc cctaccgcg cgaggccaa gttgctgaat caatggagcc 1920  
 ccccccaacc cgggcgttcc ccagcgaggg ttccctccca tctcctgac caccggggct 1980  
 tttcgtgagc tcgtctctga tctcgcgcaa gagtgcacac caggtgttca aagacgctt 2040  
 tggggagtga gggaagcggg ttacgagtga cttggctgga gcctcagggg cgggcactgg 2100  
 caccgaacac accctgaggg cagccctggc tgcccaggcg gagctgcctc ttctcccgcg 2160  
 ggttggtgga cccgctcagt acggagttag ggaagctctt tcaactcgga ggattgctca 2220  
 acaaccatgc tgggcatctg gacctctcta cctctggtga tccctctctt gcccggtgg 2280  
 aggttacctt cgtcttagtc ccggggatag gcaaagtggg gcgggcgagg gacgcgtgcg 2340  
 ggattgcggc ggcagcggcg cacgcgggca cctgggagcg gcgggctgct gcgggaggcg 2400  
 ttggagactg gctccccggg gctgttagga ccttccctca ggcccggtg ctcagaacga 2460  
 tggaggactt gcttttcttg ggccttgatg cgaagtgtg atcccgctgg gcaggcgggg 2520  
 cagctccggc gctcctcgga gacctgctg ctccacgttg aggtggcggt gggggggcga 2580  
 caggaattga agcgggaagtc tgggaagctt tagggtcgtt ggagggggac cccggttgg 2640  
 gagaggagcg gaactcctgg acaagccctg acaagccaag ccaaaggctt gctccggcgc 2700  
 ggggtgggtga gtgcgcgcgc ccccgcgggg gcggggagag agcctacagc cttcagaaca 2760  
 catattgctc attttctggc agttctcaga cgtaggaaat aagtcagcac cgaagcagt 2820  
 gtttaagccgg agggctcgga agaaccggcac cttttctttc tcgaaaaagt tatatggggg 2880  
 ctgaatgagc ttctggaggc ttgtttaccg ttttttattg tcacacagaa aaggaaactg 2940  
 ccttgtctcc cttccgggaa ttctctcttt aagactgtaa gtctgtgctt gagggtttt 3000  
 attttgtttt gtttttctgc cttctctctt cttcttttgc cttttcttag cttgcaactc 3060  
 catggtgatt tctgcttggt ctctgctgg ggttggtggt actcgttccc accgcacaga 3120  
 acccgcgccc tattattggc caagaaactt gagcagcctg ttttgaaaag tccctcgtc 3180  
 agaaatgcca gcttgcatat ggctaataca ag 3212

<210> 2  
 <211> 720  
 <212> DNA  
 <213> Homo Sapiens

<400> 2  
 gatcccgctg ggcaggcggg gcagctccgg cgtcctcgg agaccactgc gctccacgtt 60  
 gaggtgggag tggggggcgg acaggaattg aagcgggaagt ctgggaagct ttagggtcgc 120  
 tggaggggga ccccggttgg agagaggagc ggaactcctg gacaagccct gacaagccaa 180  
 gccaaaggct cgtcccgcg cgggtgggtg agtgcgcgcc gcccgcggg ggccgggaga 240  
 gagcctacag cttcagaac acatattgct cattttctgg cagttctcag acgtaggaaa 300  
 taagtacaga ccgaagcagt ggttaagccg gagggctcgg aagaacggca cttttctttt 360  
 ctgaaaaaag ttatatgggg gctgaatgag cttctggagg cttgtttacc gttttttatt 420  
 gtcacacaga aaaggaaact gcctgtctc cttccggga attctctctt taagactgta 480  
 agtcgctgcc tgagtgggtt ctttttctg cttctctctt tttttttt 540  
 cctttcttta gcttgcaact ccatggtgat ttctgcttgg tctcctgctg ggggttggtg 600  
 tactcgttcc caccgcacag aaccgcgcgc ctattattgg ccaagaaact tgagcagct 660  
 gttttgaaaa gtccctcgtc cagaaatgcc agcttgacga tggctaataa aagagacgtg 720

<210> 3  
 <211> 2380  
 <212> DNA  
 <213> Homo Sapiens

<400> 3  
 agcttttttg gctacatttt tttatttgta aagtaagttt aataatcaact catctcactg 60  
 ggctataatg ataagtatta agtaaggag atccacatat gtgagttgct ggcttataat 120  
 tcacactcaa gagatactga ttttgtaaat tgtcctttcc ctttttttct tctcttccct 180  
 ccttccattc cttcttccct tacctctcct ttccttccct cacaccctt ttccttccct 240  
 ctttttacat ttttttattt aaatgaactt ttcatttttg aatagtttta ggatttcaaa 300  
 aaatttgag agataatata gagaatgccc atataaccat ctccttatcc cacttctttt 360  
 tgtgtctatt agatgctcag agtggtgca caaggctggc acgcccaggg tcttctcat 420

ggcactaaca	gtctactgaa	aggtggaaca	gagacaagcc	tatcaacacc	tacaagactg	480
gtggtaagt	cagtgacaga	tgcaaaacac	aggggtgatg	aaagccctca	ggagggtaac	540
ctaacctaga	tttgagggcc	caaacaggct	ccagaagaaa	atgtcaactg	agaggaagcc	600
tgaaggatga	acagtgggct	aagcaaaggg	ttattaatgt	gttattaatg	ggttgaatct	660
aattgggaag	ggagagaggt	tgacagatga	ggtgcagagc	ttggtggacg	atgccaaagg	720
aatactgaaa	cctttagtgt	gtccagtctg	gaactgcatc	caaattcagg	ttcagtaatg	780
atgtcattat	ccaaacatac	ctttctgtaa	attcatgcta	aactaccta	gagctatcta	840
ccgttccaaa	gcaatagtga	ctttgaacag	tgttcaccag	agcacgaaag	aattacaaga	900
ttttttttta	aagaaaattg	gccaggaaat	aatgagtaac	gaaggacagg	aagtaattgt	960
gaatgtttta	tatagctggg	gctatgcatg	ttggcttaag	ttgttagctt	tgttttcctc	1020
ttgagaaata	aaaactaagg	ggccctccct	tttcagagcc	ctatggcgca	acatctgtac	1080
tttttcata	ggttaactgt	ccattccagg	aacgtctgtg	agcctctcat	gttcgagcca	1140
caacatggac	agcccagtc	aatgccccgc	aagtctttct	ctgagtga	ccagcaatta	1200
gccaaggctc	ctgtaccag	gcaggacctc	tgccctctga	gctccattct	ccttcaagac	1260
ctccccaact	tcccaggttg	aactacagca	gaagccttta	gaaagggcag	gaggccggct	1320
ctcgaggtcc	tcacctgaag	tgagcatgcc	agccactgca	ggaacgcccc	gggacaggaa	1380
tgccattttg	tgcaacgaac	cctgactcct	tcctcaccct	gacttctccc	cctccctacc	1440
cgcgcgcagg	ccaagtgtgt	gaatcaatgg	agccctcccc	aaccggggcg	ttccccagcg	1500
aggcttcctt	cccatcctcc	tgaccaccgg	ggcttttcgt	gagctcgtct	ctgatctcgc	1560
gcaagagtga	cacacagggt	ttcaaagacg	cttctgggga	gtgaggggaag	cggtttacga	1620
gtgacttggt	tgagacctca	ggggcgggca	ctggcacgga	acacaccctg	aggccagccc	1680
tggttgccca	ggcggagctg	cctcttctcc	cgcggacatg	tacagagctc	gagaagtact	1740
agtggccacg	tgggccgtgc	accttaagct	ttagggctgc	tgagggggga	ccccggttgg	1800
agagaggagc	ggaactcctg	gacaagccct	gacaagccaa	gccaagggtc	cgctccggcg	1860
cgggtgggtg	agtgcgcg	gccccgcggg	ggcggggaga	gagcctgcag	ccttcagaac	1920
agatattgct	cattttctgg	cagtctctcag	acgtaggaaa	taagtcagca	ccgaagcagt	1980
ggttaagccg	gagggtctcg	aagaacggca	ccttttcttt	ctcgaaaaag	ttatatgggg	2040
gctgaatgag	cttctggagg	cttgtttacc	gttttttatt	gtcacacaga	aaaggaaact	2100
gccttgcttc	ccttcgggga	attctctctt	taagactgta	agtcgctgcc	tgagtgggtt	2160
cattttgttt	tggttttctg	cccttctctt	tcttcttttg	ccctttctta	gcttgacttc	2220
ccatggtgat	ttctgcttgg	tctcctgctg	gggttggtgg	tactcgttcc	caccgcacag	2280
aaccggcg	ctattattgg	ccaagaaact	tgagcagcct	gttttgaaaa	gtccctcgct	2340
cagaaatgcc	agcttgacga	tggttaatac	aagagacgtg			2380

<210> 4  
 <211> 2827  
 <212> DNA  
 <213> Homo Sapiens

<400> 4						
tgaggactct	caggaatatg	ctggtaaaat	aaaaataacc	tttagagatg	cccaaactgt	60
tttccccaga	acaccagcat	tcattaggtg	ttcattcaat	agattcttca	aaggattcca	120
aaggcaaaga	agtttgggga	acagtatata	taattaccca	accctttgac	attagcatat	180
taagggccct	gagaagtgtt	ggattaagaa	agttttcaaa	ttaaagtaac	ccagaatttt	240
ctaagattat	ttgacctaga	aacatatgtc	tccccacaaa	gcacatatcc	ctatctcctt	300
gaacttgagg	ataattagac	gtacgtgggt	agagggtagg	ggaagggggg	atggcataga	360
aagagcagga	ccttgggagc	aagaatatct	aagttaatt	cctgactctg	ctatttatta	420
actaaccatc	tttgccaatg	ttgcttaagc	ttttttggct	acattttttt	atttgtaaag	480
taagtttaat	aatcaactcat	ctcactgggc	tataatgata	agtattaaag	aaggaagatc	540
cacatatgtg	agttgctggc	ttataattca	cactcaagag	atactgattt	tgtcaattgt	600
cctttccctc	ttttttctct	cttccctcct	tccattcctt	cttcccttac	ctctcctttc	660
cttccctcac	accccttttc	cttcccttct	tttacatttt	tttatttaa	tgaacttttc	720
attttggaat	agtttttagga	tttcaaaaaa	tttcagaga	taatacacag	aatgcccata	780
taccatcctc	cttatcccac	ttctttttgt	gtctattaga	tgctcagagt	gtgtgcacaa	840
ggctggcacg	cccagggtct	tcctcatggc	actaacagtc	tactgaaagg	tggaacagag	900
acaagcctat	caacacctac	aagactgggt	gtaagtgcag	tgacagatgc	aaaacacagg	960
gtgatggaaa	gcctcagga	gggtaacct	acctagattt	gagggcccaa	acaggctcca	1020
gaagaaaatg	tcaactgaga	ggaagcctga	aggatgaaca	gtgggctaag	caaagggtta	1080
ttaatgtgtt	attaatgggt	tgaatcta	tggaaggga	gagaggttgc	agagtggagt	1140
gcagagcttg	gtggacgatg	ccaaaggaat	actgaaacct	ttagtgtgtc	cagtctggaa	1200



<212> DNA  
<213> Homo Sapiens

<400> 8

ggaaaatccc tgaaaatcca 20

<210> 9  
<211> 20  
<212> DNA  
<213> Homo Sapiens

<400> 9

gcacaagccc tcacaagcca 20

<210> 10  
<211> 20  
<212> DNA  
<213> Homo Sapiens

<400> 10

ggacaagccc tgacaagcca 20

<210> 11  
<211> 20  
<212> DNA  
<213> Homo Sapiens

<400> 11

ggaaaatccc tgaaaatcca 20

<210> 12  
<211> 20  
<212> DNA  
<213> Homo Sapiens

<400> 12

agagatgccc aaactgtttt 20

<210> 13  
<211> 20  
<212> DNA  
<213> Homo Sapiens

<400> 13

agagattccc aaaatgtttt 20

<210> 14  
<211> 20  
<212> DNA  
<213> Homo Sapiens

TCAGTGGG

[illegible]

20

<211> 20

<213> Homo Sapiens

20

<211> 20

<213> Homo Sapiens

20

<211> 20

<213> Homo Sapiens

20

<211> 40

<213> Homo Sapiens

40

<211> 26

<213> Homo Sapiens

26

<211> 40

<213> Homo Sapiens

[illegible]

catctttgcc aatgttgctt aagctttttt ggctacattt 40

```
<210> 21
<211> 26
<212> DNA
<213> Homo Sapiens
```

<400> 21

catctttgcc actagtggctacattt 26

```
<210> 22
<211> 40
<212> DNA
<213> Homo Sapiens
```

<400> 22

aattcatgct aaactaccta agagctatct accgttccaa 40

```
<210> 23
<211> 26
<212> DNA
<213> Homo Sapiens
```

<400> 23

aattcatgct atgcataaccg ttccaa 26

```
<210> 24
<211> 20
<212> DNA
<213> Homo Sapiens
```

<400> 24

ggacaagccc tgacaagcca 20

```
<210> 25
<211> 20
<212> DNA
<213> Homo Sapiens
```

```
<400> 25
ggaaaatccc tgaaaatcca                20
```

```
<210> 26
<211> 40
<212> DNA
<213> Homo Sapiens
```

Eigenschaften	
1.1	1.1.1
1.2	1.2.1
1.3	1.3.1
1.4	1.4.1
1.5	1.5.1
1.6	1.6.1
1.7	1.7.1
1.8	1.8.1
1.9	1.9.1
1.10	1.10.1
1.11	1.11.1
1.12	1.12.1
1.13	1.13.1
1.14	1.14.1
1.15	1.15.1
1.16	1.16.1
1.17	1.17.1
1.18	1.18.1
1.19	1.19.1
1.20	1.20.1
1.21	1.21.1
1.22	1.22.1
1.23	1.23.1
1.24	1.24.1
1.25	1.25.1
1.26	1.26.1
1.27	1.27.1
1.28	1.28.1
1.29	1.29.1
1.30	1.30.1
1.31	1.31.1
1.32	1.32.1
1.33	1.33.1
1.34	1.34.1
1.35	1.35.1
1.36	1.36.1
1.37	1.37.1
1.38	1.38.1
1.39	1.39.1
1.40	1.40.1
1.41	1.41.1
1.42	1.42.1
1.43	1.43.1
1.44	1.44.1
1.45	1.45.1
1.46	1.46.1
1.47	1.47.1
1.48	1.48.1
1.49	1.49.1
1.50	1.50.1
1.51	1.51.1
1.52	1.52.1
1.53	1.53.1
1.54	1.54.1
1.55	1.55.1
1.56	1.56.1
1.57	1.57.1
1.58	1.58.1
1.59	1.59.1
1.60	1.60.1
1.61	1.61.1
1.62	1.62.1
1.63	1.63.1
1.64	1.64.1
1.65	1.65.1
1.66	1.66.1
1.67	1.67.1
1.68	1.68.1
1.69	1.69.1
1.70	1.70.1
1.71	1.71.1
1.72	1.72.1
1.73	1.73.1
1.74	1.74.1
1.75	1.75.1
1.76	1.76.1
1.77	1.77.1
1.78	1.78.1
1.79	1.79.1
1.80	1.80.1
1.81	1.81.1
1.82	1.82.1
1.83	1.83.1
1.84	1.84.1
1.85	1.85.1
1.86	1.86.1
1.87	1.87.1
1.88	1.88.1
1.89	1.89.1
1.90	1.90.1
1.91	1.91.1
1.92	1.92.1
1.93	1.93.1
1.94	1.94.1
1.95	1.95.1
1.96	1.96.1
1.97	1.97.1
1.98	1.98.1
1.99	1.99.1
2.00	2.00.1
2.01	2.01.1
2.02	2.02.1
2.03	2.03.1
2.04	2.04.1
2.05	2.05.1
2.06	2.06.1
2.07	2.07.1
2.08	2.08.1
2.09	2.09.1
2.10	2.10.1
2.11	2.11.1
2.12	2.12.1
2.13	2.13.1
2.14	2.14.1
2.15	2.15.1
2.16	2.16.1
2.17	2.17.1
2.18	2.18.1
2.19	2.19.1
2.20	2.20.1
2.21	2.21.1
2.22	2.22.1
2.23	2.23.1
2.24	2.24.1
2.25	2.25.1
2.26	2.26.1
2.27	2.27.1
2.28	2.28.1
2.29	2.29.1
2.30	2.30.1
2.31	2.31.1
2.32	2.32.1
2.33	2.33.1
2.34	2.34.1
2.35	2.35.1
2.36	2.36.1
2.37	2.37.1
2.38	2.38.1
2.39	2.39.1
2.40	2.40.1
2.41	2.41.

40

<213> Homo Sapiens

26

<213> Homo Sapiens

40

<213> Homo Sapiens

26

<213> Homo Sapiens

40

<213> Homo Sapiens

26



<210> 32  
<211> 266  
<212> DNA  
<213> Homo Sapiens  
  
<400> 32

gatcccgctg ggcagggcggg gcagctccgg cgctcctcgg agaccactgc gctccacggt	60
gaggtgggcg tggggggcgg acaggaattg aagcggaagt ctgggaagct ttagggtcgc	120
tggaggggga ccccggttgg agagaggagc ggaactcctg gacaagccct gacaagccaa	180
gccaaaggtc cgctccggcg cgggtgggtg agtgcgcgcc gcccgcggg ggcggggaga	240
gagcctgcag ccttcagaac agatat	266

bioRxiv preprint doi: <https://doi.org/10.1101/000000>; this version posted March 1, 2014. The copyright holder for this preprint (which was not certified by peer review) is the author/funder, who has granted bioRxiv a license to display the preprint in perpetuity. It is made available under aCC-BY-NC-ND 4.0 International license.